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Answer The Following

- 1) There are two numbers such that sum of the numbers is 50 and their difference is 14. Find the difference of their cubes.
- 2) Solve the following:
 $\sqrt[3]{-1600} \times \sqrt[3]{2560}$
- 3) Which of the following numbers is a perfect cube?
27003, 998, 24389, 4102
- 4) Which of the following statements is false:
The sum of the cubes of the first n natural numbers is equal to the square of their sum
A number that has the last digit as 6 will have 6 as the last digit of its cube
All numbers that ends with '000' will be perfect cubes
If a number is divisible by a prime number p then the cube of that number is divisible by p^3
- 5) Find the value of A if
 $\sqrt[3]{500 \cdot A} = 10$

Choose correct answer(s) from given choice

- 6) If you subtract a number x from 16 times that number, and then take the cube of the difference, what will the result be?
a. $4096x^3$ b. $3375x^3$
c. $3412x^2$ d. $3303x^2$
- 7) What is the value of $\sqrt{\frac{3 \cdot 1728}{24389}}$
a. $\frac{12}{29}$ b. $\frac{144}{29}$
c. $\frac{15}{29}$ d. $\frac{29}{12}$
- 8) What is the value of $\sqrt{\frac{3 \cdot -216}{2197}}$
a. b. 13

Square Roots and Cube Roots

Square Root	Answer	Cube Root	Answer
$\sqrt{1} =$	1	$\sqrt[3]{1} =$	1
$\sqrt{4} =$	2	$\sqrt[3]{8} =$	2
$\sqrt{9} =$	3	$\sqrt[3]{27} =$	3
$\sqrt{16} =$	4	$\sqrt[3]{64} =$	4
$\sqrt{25} =$	5	$\sqrt[3]{125} =$	5
$\sqrt{36} =$	6		
$\sqrt{49} =$	7		
$\sqrt{64} =$	8		
$\sqrt{81} =$	9		
$\sqrt{100} =$	10		

Name : _____ Score : _____

Teacher : _____ Date : _____

Perfect Squares and Cubes Operations

Write the square or cube for each number.

1) $4^2 = \underline{16}$ 2) $12^3 = \underline{1728}$ 3) $6^3 = \underline{216}$

4) $9^2 = \underline{81}$ 5) $10^3 = \underline{1000}$ 6) $2^2 = \underline{4}$

Write the square root for each number.

7) $\sqrt{16} = \underline{4}$ 8) $\sqrt{361} = \underline{19}$ 9) $\sqrt{100} = \underline{10}$

10) $\sqrt{36} = \underline{6}$ 11) $\sqrt{225} = \underline{15}$ 12) $\sqrt{64} = \underline{8}$

Write the cube root for each number.

13) $\sqrt[3]{1728} = \underline{12}$ 14) $\sqrt[3]{216} = \underline{6}$ 15) $\sqrt[3]{1000} = \underline{10}$

16) $\sqrt[3]{1} = \underline{1}$ 17) $\sqrt[3]{27} = \underline{3}$ 18) $\sqrt[3]{8000} = \underline{20}$



Famous Old Dudes

Estimating Square Roots: Review

Name: _____ Class Period: _____ Date: _____

Who said, "Motown will always be a heavy-duty part of my life because those are my roots"?

Calculators are awesome tools, but you may occasionally hit a wrong key. It is always a good idea to be able to come up with a reasonable estimate to double check the answer your calculator gives you.

To estimate a square root, think about what two perfect squares the number falls between. For example 78 falls between 64 and 81. The square root of 64 is 8 and the square root of 81 is 9. So, the square root of 78 will be between 8 and 9. ($\sqrt{78} \approx 8.832$)

Estimate each square root. Put the letter next to it in the spot where the square root falls on the number line below.

O. $\sqrt{78}$ Is between 8 and 9 E. $\sqrt{31}$ S. $\sqrt{150}$

I. $\sqrt{112}$ N. $\sqrt{200}$ K. $\sqrt{20}$

Y. $\sqrt{42}$ B. $\sqrt{90}$ N. $\sqrt{135}$

O. $\sqrt{175}$ S. $\sqrt{3}$ R. $\sqrt{58}$

M. $\sqrt{7}$ O. $\sqrt{11}$



Born in 1940



Prerequisite Worksheet for Section 15

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